Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-87655-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	02/19/2013
Reviewer:	Jane Lindsey	Date:	03/12/2013
Concurrence[1]:	Carol Lovett/Sarah Choyke	Date:	03/29/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			MB 660-134788/1-A: Phenanthrene @ 3.99 J µg/kg (RL 8.0, DL 3.9)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 022013-RB-Sieve (680-87709-57)	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (022013-RB-Sieve) was collected during the week of 02/18/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87709-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)		✓		Phenanthrene blank contamination action level (BCAL) is 19.95 µg/Kg (3.99 µg/kg x 5)[2]. Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Qualification of data due to the presence of blank contamination is not warranted, as sample results were significantly greater than that observed in the blanks.	
14. Is a field duplicate associated with this Job?	✓			• FM0161VVV-CSD (680-87655-17) is a field duplicate of FM0161VVV-CS (860-87655-16). • FM0161YYY-CSD (680-87655-21) is a field duplicate of FM0161YYY-CS (860-87655-20). FM0161YYY-CSD results were reported under TestAmerica Job ID 680-87655-2.	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B**, Field Duplicate Evaluation.	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis.	✓			• Initial Calibration: 02/22/2013, instrument BSMA5973 • ICV: 02/22/2013 @ 12:48 • CCV: 02/26/2013 @ 15:03 • Initial Calibration: 02/22/2013, instrument BSMC5973 • ICV: 02/22/2013 @ 14:06	

[2] BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.				• CCV: 02/26/2013 @ 13:53 • Initial Calibration: 02/22/2013, instrument BSMD5973 • ICV: 02/22/2013 @ 14:51 • CCV: 02/26/2013 @ 14:04	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds		✓		• ICV of 02/22/2013 @ 12:48, instrument BSMA5973: 2-Methylnaphthalene @ 22.1%D (Lab: ≤35, Project: ≤20). Positive bias is indicated by the CV percent difference; therefore, J-flag detected 2-Methyl naphthalene result in associated samples[3] • ICV of 02/22/2013 @ 14:06, instrument BSMC5973: o Chrysene @ -20.6%D (Lab: ≤35, Project: ≤20). o Benzo(a)pyrene @ -21.7%D (Lab: ≤35, Project: ≤20) Positive bias is indicated by the CV percent difference; therefore, J-flag detected chrysene and benzo(a)pyrene results in associated samples[4].	J
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects	✓				
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			• Prep Batch 134788: 680-87545-61 (Batch sample), MS/MSD • Prep Batch 134800: 680-87545-84 (Batch sample), MS/MSD • Prep Batch 134808: 680-87655-12 (HP0043B-CS-SP), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	

[3] 680-87655-12 and -20

4 680-87655-2 through -11 and -13 through -19

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		✓		HP0043B-CS-SP (680-87655-12): • Benzo(a)anthracene @ 16%R and 35%R, respectively (40-130). J-flag positive result. • Benzo(a)pyrene @ 5%R and 30%R, respectively (49-130). J-flag positive result. • Benzo(b)fluoranthene @ -2%R and 35%R, respectively (37-130). J-flag positive result. • Benzo(g,h,i)perylene @ -8%R and 13%R, respectively (32-130). J-flag positive result. • Benzo(k)fluoranthene @ 4%R and 23%R, respectively (32-130). J-flag positive result. • Chrysene @ 11%R and 33%R, respectively (41-130). J-flag positive result. • Fluoranthene @ 13%R and 22%R, respectively (40-130). J-flag positive result. • Indeno(1,2,3-cd)pyrene @ 3%R (30-130). Qualification of result not required, because MSD %R (32) met control limits. • Pyrene @ -6%R and 9%R, respectively (44-130). J-flag positive result.	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87655-1	FM0161KKK-CS	Solid	02/19/13 08:29	02/21/13 09:20
680-87655-2	FM0161LLL-CS	Solid	02/19/13 08:43	02/21/13 09:20
680-87655-3	FM0161MMM-CS	Solid	02/19/13 08:55	02/21/13 09:20
680-87655-4	FM0161NNN-CS	Solid	02/19/13 09:07	02/21/13 09:20
680-87655-5	FM0161OOO-CS	Solid	02/19/13 09:10	02/21/13 09:20
680-87655-6	FM0161PPP-CS	Solid	02/19/13 09:17	02/21/13 09:20
680-87655-7	FM0161QQQ-CS	Solid	02/19/13 09:22	02/21/13 09:20
680-87655-8	FM0161RRR-CS	Solid	02/19/13 09:24	02/21/13 09:20
680-87655-9	FM0161SSS-CS	Solid	02/19/13 09:28	02/21/13 09:20
680-87655-10	FM0161TTT-CS	Solid	02/19/13 09:32	02/21/13 09:20
680-87655-11	HP0043A-CS-SP	Solid	02/19/13 08:56	02/21/13 09:20
680-87655-12	HP0043B-CS-SP	Solid	02/19/13 09:08	02/21/13 09:20
680-87655-13	HP0250A-CS-SP	Solid	02/19/13 09:42	02/21/13 09:20
680-87655-14	HP0250B-CS-SP	Solid	02/19/13 09:55	02/21/13 09:20
680-87655-15	FM0161UUU-CS	Solid	02/19/13 09:34	02/21/13 09:20
680-87655-16	FM0161VVV-CS	Solid	02/19/13 09:38	02/21/13 09:20
680-87655-17	FM0161VVV-CSD	Solid	02/19/13 09:40	02/21/13 09:20
680-87655-18	FM0161WWW-CS	Solid	02/19/13 09:45	02/21/13 09:20
680-87655-19	FM0161XXX-CS	Solid	02/19/13 09:46	02/21/13 09:20
680-87655-20	FM0161YYY-CS	Solid	02/19/13 09:57	02/21/13 09:20

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0161VVV-CS (680-87655-16)	RL	FM0161VVV-CSD (680-87655-17)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	11	41	10	42	µg/kg	207.5	NA	1	83	None, absolute difference ≤ 2x Avg RL
Anthracene	37	8.7	11	8.8	µg/kg	43.75	NA	**26**	**17.5**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)anthracene	180	8.3	86	8.4	µg/kg	41.75	**71**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	140	11	74	11	µg/kg	55	**62**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(b)fluoranthene	270	13	150	13	µg/kg	65	**57**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	100	21	61	21	µg/kg	105	NA	39	42	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	89	8.3	51	8.4	µg/kg	41.75	**54**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	220	9.3	110	9.4	µg/kg	46.75	**67**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	34	21	21	21	µg/kg	105	NA	13	42	None, absolute difference ≤ 2x Avg RL
Fluoranthene	390	21	140	21	µg/kg	105	**94**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	13.0	21	8.6	21	µg/kg	105	NA	4.4	42	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	88	21	50	21	µg/kg	105	NA	38	42	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	49	41	43	42	µg/kg	207.5	NA	6	83	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	68	41	50	42	µg/kg	207.5	NA	18	83	None, absolute difference ≤ 2x Avg RL
Naphthalene	72	41	54	42	µg/kg	207.5	NA	18	83	None, absolute difference ≤ 2x Avg RL
Phenanthrene	200	8.3	96	8.4	µg/kg	41.75	**70**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	320	21	140	21	µg/kg	105	**78**	NA	NA	**J/UJ-flag, RPD > 50%**

Analyte	FM0161YYY-CS (680-87655-20)	RL	FM0161YYY-CS (680-87655-21)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene		170	21	170	µg/kg	850	NA	21	340	None, absolute difference ≤ 2x Avg RL
Anthracene	66	36	39	35	µg/kg	177.5	NA	27	71	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	250	34	160	33	µg/kg	167.5	NA	**90**	**67**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)pyrene	170	44	84	43	µg/kg	217.5	NA	86	87	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	240	52	130	51	µg/kg	257.5	NA	**110**	**103**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(g,h,i)perylene	150	85	86	83	µg/kg	420	NA	64	168	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	79	34	51	33	µg/kg	167.5	NA	28	67	None, absolute difference ≤ 2x Avg RL
Chrysene	290	38	130	38	µg/kg	190	NA	**160**	**76**	**J/UJ-flag, absolute difference > 2x Avg RL**
Dibenzo(a,h)anthracene	42	85	67	83	µg/kg	420	NA	25	168	None, absolute difference ≤ 2x Avg RL
Fluoranthene	310	85	150	83	µg/kg	420	NA	160	168	None, absolute difference ≤ 2x Avg RL
Fluorene	21	85		83	µg/kg	420	NA	21	168	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	130	85	68	83	µg/kg	420	NA	62	168	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	53	170	63	170	µg/kg	850	NA	10	340	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	76	170	93	170	µg/kg	850	NA	17	340	None, absolute difference ≤ 2x Avg RL
Naphthalene	77	170	91	170	µg/kg	850	NA	14	340	None, absolute difference ≤ 2x Avg RL
Phenanthrene	250	34	190	33	µg/kg	167.5	**27**	NA	NA	None, RPD ≤ 50%
Pyrene	310	85	170	83	µg/kg	420	NA	140	168	None, absolute difference ≤ 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-87655-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87655-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 2.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161KKK-CS (680-87655-1), FM0161LLL-CS (680-87655-2), FM0161MMM-CS (680-87655-3), FM0161NNN-CS (680-87655-4), FM0161OOO-CS (680-87655-5), FM0161PPP-CS (680-87655-6), FM0161QQQ-CS (680-87655-7), FM0161RRR-CS (680-87655-8), FM0161SSS-CS (680-87655-9), FM0161TTT-CS (680-87655-10), HP0043A-CS-SP (680-87655-11), HP0043B-CS-SP (680-87655-12), HP0250A-CS-SP (680-87655-13), HP0250B-CS-SP (680-87655-14), FM0161UUU-CS (680-87655-15), FM0161VVV-CS (680-87655-16), FM0161VVV-CSD (680-87655-17), FM0161WWW-CS (680-87655-18), FM0161XXX-CS (680-87655-19) and FM0161YYY-CS (680-87655-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/25/2013 and analyzed on 02/26/2013 and 02/27/2013.

Samples HP0250A-CS-SP (680-87655-13)[4X], HP0250B-CS-SP (680-87655-14)[4X] and FM0161YYY-CS (680-87655-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The method blank for preparation batch 134788 contained phenanthrene above the method detection limit (MDL), but below the reporting limit (RL). The daily instrument blank was clean. The associated samples contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and re-analysis of samples were not performed.

Several analytes recovered outside the recovery criteria high for the MS/MSD of sample 680-87545-61 in batch 660-134863.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample HP0043B-CS-SP (680-87655-12) in batch 660-134852.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: FM0161KKK-CS

Lab Sample ID: 680-87655-1

Date Collected: 02/19/13 08:29
Date Received: 02/21/13 09:20

Matrix: Solid
Percent Solids: 76.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Acenaphthylene	**10**	**J**	52	6.5	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Anthracene	**15**		11	5.5	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Benzo[a]anthracene	**63**		10	5.1	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Benzo[a]pyrene	**57**		14	6.8	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Benzo[b]fluoranthene	**110**		16	7.9	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Benzo[g,h,i]perylene	**31**		26	5.7	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Benzo[k]fluoranthene	**35**		10	4.7	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Chrysene	**77**		12	5.9	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Dibenz(a,h)anthracene	**11**	**J**	26	5.3	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Fluoranthene	**94**		26	5.2	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Fluorene	26	U	26	5.3	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Indeno[1,2,3-cd]pyrene	**32**		26	9.2	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
1-Methylnaphthalene	**29**	**J**	52	5.7	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
2-Methylnaphthalene	**36**	**J**	52	9.2	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Naphthalene	**41**	**J**	52	5.7	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Phenanthrene	**72**		10	5.1	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1
Pyrene	**80**		26	4.8	ug/Kg	☼	02/25/13 06:16	02/27/13 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*02/25/13 06:16*	*02/27/13 00:17*	*1*

Client Sample ID: FM0161LLL-CS

Lab Sample ID: 680-87655-2

Date Collected: 02/19/13 08:43
Date Received: 02/21/13 09:20

Matrix: Solid
Percent Solids: 95.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Acenaphthylene	42	U	42	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Anthracene	**9.0**		8.7	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Benzo[a]anthracene	**58**		8.3	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Benzo[a]pyrene	**52**	**J**	11	5.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Benzo[b]fluoranthene	**86**		13	6.3	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Benzo[g,h,i]perylene	**40**		21	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Benzo[k]fluoranthene	**32**		8.3	3.7	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Chrysene	**69**	**J**	9.3	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Dibenz(a,h)anthracene	**16**	**J**	21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Fluoranthene	**100**		21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Fluorene	**8.4**	**J**	21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Indeno[1,2,3-cd]pyrene	**31**		21	7.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
1-Methylnaphthalene	**22**	**J**	42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
2-Methylnaphthalene	**30**	**J**	42	7.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Naphthalene	**35**	**J**	42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Phenanthrene	**65**		8.3	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1
Pyrene	**92**		21	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*02/25/13 10:02*	*02/26/13 16:01*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Client Sample ID: FM0161MMM-CS
Date Collected: 02/19/13 08:55
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-3
Matrix: Solid
Percent Solids: 96.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Acenaphthylene	**6.1**	**J**	41	5.1	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Anthracene	**7.4**	**J**	8.5	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Benzo[a]anthracene	**47**		8.1	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Benzo[a]pyrene	**47**	**J**	11	5.3	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Benzo[b]fluoranthene	**62**		12	6.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Benzo[g,h,i]perylene	**34**		20	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Benzo[k]fluoranthene	**48**		8.1	3.7	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Chrysene	**51**	**J**	9.2	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Dibenz(a,h)anthracene	**12**	**J**	20	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Fluoranthene	**63**		20	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Fluorene	20	U	20	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Indeno[1,2,3-cd]pyrene	**24**		20	7.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
1-Methylnaphthalene	**26**	**J**	41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
2-Methylnaphthalene	**37**	**J**	41	7.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Naphthalene	**38**	**J**	41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Phenanthrene	**46**		8.1	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1
Pyrene	**66**		20	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*30 - 130*	*02/25/13 10:02*	*02/26/13 16:20*	*1*

Client Sample ID: FM0161NNN-CS
Date Collected: 02/19/13 09:07
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-4
Matrix: Solid
Percent Solids: 94.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Acenaphthylene	**6.5**	**J**	42	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Anthracene	**19**		8.8	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Benzo[a]anthracene	**70**		8.4	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Benzo[a]pyrene	**58**	**J**	11	5.5	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Benzo[b]fluoranthene	**98**		13	6.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Benzo[g,h,i]perylene	**47**		21	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Benzo[k]fluoranthene	**49**		8.4	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Chrysene	**89**	**J**	9.4	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Dibenz(a,h)anthracene	**16**	**J**	21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Fluoranthene	**140**		21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Fluorene	**7.2**	**J**	21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Indeno[1,2,3-cd]pyrene	**37**		21	7.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
1-Methylnaphthalene	**28**	**J**	42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
2-Methylnaphthalene	**34**	**J**	42	7.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Naphthalene	**39**	**J**	42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Phenanthrene	**110**		8.4	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1
Pyrene	**120**		21	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*101*		*30 - 130*	*02/25/13 10:02*	*02/26/13 16:38*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Client Sample ID: FM0161OOO-CS
Date Collected: 02/19/13 09:10
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-5
Matrix: Solid
Percent Solids: 78.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Acenaphthylene	**8.0**	**J**	51	6.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Anthracene	**11**		11	5.4	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Benzo[a]anthracene	**64**		10	5.0	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Benzo[a]pyrene	**61**	J	13	6.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Benzo[b]fluoranthene	**110**		16	7.8	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Benzo[g,h,i]perylene	**54**		25	5.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Benzo[k]fluoranthene	**42**		10	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Chrysene	**90**	J	11	5.7	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Dibenz(a,h)anthracene	**15**	J	25	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Fluoranthene	**160**		25	5.1	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Fluorene	25	U	25	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Indeno[1,2,3-cd]pyrene	**49**		25	9.0	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
1-Methylnaphthalene	**31**	J	51	5.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
2-Methylnaphthalene	**41**	J	51	9.0	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Naphthalene	**50**	J	51	5.6	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Phenanthrene	**91**		10	5.0	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1
Pyrene	**140**		25	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*30 - 130*	*02/25/13 10:02*	*02/26/13 16:57*	*1*

Client Sample ID: FM0161PPP-CS
Date Collected: 02/19/13 09:17
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-6
Matrix: Solid
Percent Solids: 95.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Acenaphthylene	**11**	**J**	41	5.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Anthracene	**17**		8.6	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Benzo[a]anthracene	**71**		8.2	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Benzo[a]pyrene	**71**	J	11	5.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Benzo[b]fluoranthene	**120**		13	6.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Benzo[g,h,i]perylene	**52**		21	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Benzo[k]fluoranthene	**36**		8.2	3.7	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Chrysene	**87**	J	9.3	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Dibenz(a,h)anthracene	**13**	**J**	21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Fluoranthene	**120**		21	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Fluorene	**8.6**	**J**	21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Indeno[1,2,3-cd]pyrene	**48**		21	7.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
1-Methylnaphthalene	**36**	**J**	41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
2-Methylnaphthalene	**47**		41	7.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Naphthalene	**57**		41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Phenanthrene	**75**		8.2	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1
Pyrene	**100**		21	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*101*		*30 - 130*	*02/25/13 10:02*	*02/26/13 17:15*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Client Sample ID: FM0161QQQ-CS

Date Collected: 02/19/13 09:22
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-7
Matrix: Solid
Percent Solids: 85.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Acenaphthylene	**9.7**	**J**	47	5.9	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Anthracene	**16**		9.9	4.9	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Benzo[a]anthracene	**84**		9.4	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Benzo[a]pyrene	**80**	J	12	6.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Benzo[b]fluoranthene	**140**		14	7.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Benzo[g,h,i]perylene	**59**		23	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Benzo[k]fluoranthene	**49**		9.4	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Chrysene	**100**	J	11	5.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Dibenz(a,h)anthracene	**19**	**J**	23	4.8	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Fluoranthene	**130**		23	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Fluorene	**8.8**	**J**	23	4.8	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Indeno[1,2,3-cd]pyrene	**52**		23	8.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
1-Methylnaphthalene	**37**	**J**	47	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
2-Methylnaphthalene	**46**	**J**	47	8.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Naphthalene	**55**		47	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Phenanthrene	**82**		9.4	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1
Pyrene	**120**		23	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*30 - 130*	*02/25/13 10:02*	*02/26/13 17:34*	*1*

Client Sample ID: FM0161RRR-CS

Date Collected: 02/19/13 09:24
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-8
Matrix: Solid
Percent Solids: 98.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Acenaphthylene	**8.7**	**J**	40	5.0	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Anthracene	**12**		8.4	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Benzo[a]anthracene	**54**		8.0	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Benzo[a]pyrene	**47**	J	10	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Benzo[b]fluoranthene	**93**		12	6.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Benzo[g,h,i]perylene	**37**		20	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Benzo[k]fluoranthene	**27**		8.0	3.6	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Chrysene	**60**	J	9.0	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Dibenz(a,h)anthracene	**12**	**J**	20	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Fluoranthene	**75**		20	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Fluorene	**5.7**	**J**	20	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Indeno[1,2,3-cd]pyrene	**30**		20	7.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
1-Methylnaphthalene	**16**	**J**	40	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
2-Methylnaphthalene	**18**	**J**	40	7.1	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Naphthalene	**21**	**J**	40	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Phenanthrene	**41**		8.0	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1
Pyrene	**76**		20	3.7	ug/Kg	☼	02/25/13 10:02	02/26/13 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*30 - 130*	*02/25/13 10:02*	*02/26/13 17:52*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Client Sample ID: FM0161SSS-CS
Date Collected: 02/19/13 09:28
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-9
Matrix: Solid
Percent Solids: 92.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Acenaphthylene	43	U	43	5.3	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Anthracene	**4.6**	**J**	8.9	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Benzo[a]anthracene	**28**		8.5	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Benzo[a]pyrene	**26**	J	11	5.5	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Benzo[b]fluoranthene	**43**		13	6.5	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Benzo[g,h,i]perylene	**23**		21	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Benzo[k]fluoranthene	**11**		8.5	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Chrysene	**33**	J	9.6	4.8	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Dibenz(a,h)anthracene	**6.9**	**J**	21	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Fluoranthene	**43**		21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Fluorene	21	U	21	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Indeno[1,2,3-cd]pyrene	**17**	**J**	21	7.6	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
1-Methylnaphthalene	**16**	**J**	43	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
2-Methylnaphthalene	**16**	**J**	43	7.6	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Naphthalene	**16**	**J**	43	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Phenanthrene	**37**		8.5	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1
Pyrene	**46**		21	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*30 - 130*	*02/25/13 10:02*	*02/26/13 18:10*	*1*

Client Sample ID: FM0161TTT-CS
Date Collected: 02/19/13 09:32
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-10
Matrix: Solid
Percent Solids: 96.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Acenaphthylene	41	U	41	5.1	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Anthracene	8.6	U	8.6	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Benzo[a]anthracene	**29**		8.2	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Benzo[a]pyrene	**25**	J	11	5.3	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Benzo[b]fluoranthene	**42**		12	6.2	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Benzo[g,h,i]perylene	**18**	**J**	20	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Benzo[k]fluoranthene	**14**		8.2	3.7	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Chrysene	**34**	J	9.2	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Dibenz(a,h)anthracene	**6.7**	**J**	20	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Fluoranthene	**43**		20	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Fluorene	20	U	20	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Indeno[1,2,3-cd]pyrene	**19**	**J**	20	7.3	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
1-Methylnaphthalene	**15**	**J**	41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
2-Methylnaphthalene	**19**	**J**	41	7.3	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Naphthalene	**25**	**J**	41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Phenanthrene	**35**		8.2	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1
Pyrene	**36**		20	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*30 - 130*	*02/25/13 10:02*	*02/26/13 18:29*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Client Sample ID: HP0043A-CS-SP
Date Collected: 02/19/13 08:56
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-11
Matrix: Solid
Percent Solids: 89.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Acenaphthylene	**5.8**	**J**	45	5.6	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Anthracene	**23**		9.4	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Benzo[a]anthracene	**150**		8.9	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Benzo[a]pyrene	**260**	J	12	5.8	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Benzo[b]fluoranthene	**370**		14	6.8	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Benzo[g,h,i]perylene	**210**		22	4.9	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Benzo[k]fluoranthene	**130**		8.9	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Chrysene	**180**	J	10	5.0	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Dibenz(a,h)anthracene	**52**		22	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Fluoranthene	**190**		22	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Fluorene	**15**	**J**	22	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Indeno[1,2,3-cd]pyrene	**190**		22	7.9	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
1-Methylnaphthalene	**51**		45	4.9	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
2-Methylnaphthalene	**66**		45	7.9	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Naphthalene	**71**		45	4.9	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Phenanthrene	**140**		8.9	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1
Pyrene	**200**		22	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*30 - 130*	*02/25/13 10:02*	*02/26/13 18:47*	*1*

Client Sample ID: HP0043B-CS-SP
Date Collected: 02/19/13 09:08
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-12
Matrix: Solid
Percent Solids: 97.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Acenaphthylene	**18**	**J**	41	5.1	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Anthracene	**42**		8.6	4.3	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Benzo[a]anthracene	**570**	F J	8.2	4.0	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Benzo[a]pyrene	**600**	F J	11	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Benzo[b]fluoranthene	**1100**	F J	12	6.2	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Benzo[g,h,i]perylene	**890**	F J	20	4.5	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Benzo[k]fluoranthene	**470**	F J	8.2	3.7	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Chrysene	**690**	F J	9.2	4.6	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Dibenz(a,h)anthracene	**290**		20	4.2	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Fluoranthene	**410**	F J	20	4.1	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Fluorene	**17**	**J**	20	4.2	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Indeno[1,2,3-cd]pyrene	**850**	F	20	7.2	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
1-Methylnaphthalene	**86**		41	4.5	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
2-Methylnaphthalene	**100**	J	41	7.2	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Naphthalene	**110**		41	4.5	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Phenanthrene	**230**		8.2	4.0	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1
Pyrene	**550**	F J	20	3.8	ug/Kg	☼	02/25/13 11:29	02/26/13 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*02/25/13 11:29*	*02/26/13 16:59*	*1*

Client Sample ID: HP0250A-CS-SP
Date Collected: 02/19/13 09:42
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-13
Matrix: Solid
Percent Solids: 99.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	400	U	400	80	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Acenaphthylene	**25**	**J**	160	20	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Anthracene	**40**		34	17	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Benzo[a]anthracene	**210**		32	16	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Benzo[a]pyrene	**210**	J	42	21	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Benzo[b]fluoranthene	**400**		49	24	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Benzo[g,h,i]perylene	**170**		80	18	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Benzo[k]fluoranthene	**130**		32	14	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Chrysene	**300**	J	36	18	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Dibenz(a,h)anthracene	**71**	**J**	80	16	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Fluoranthene	**320**		80	16	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Fluorene	**20**	**J**	80	16	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Indeno[1,2,3-cd]pyrene	**150**		80	28	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
1-Methylnaphthalene	**110**	**J**	160	18	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
2-Methylnaphthalene	**130**	**J**	160	28	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Naphthalene	**92**	**J**	160	18	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Phenanthrene	**320**		32	16	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4
Pyrene	**340**		80	15	ug/Kg	☼	02/25/13 10:02	02/26/13 19:06	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*30 - 130*	*02/25/13 10:02*	*02/26/13 19:06*	*4*

Client Sample ID: HP0250B-CS-SP
Date Collected: 02/19/13 09:55
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-14
Matrix: Solid
Percent Solids: 78.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Acenaphthylene	**150**	**J**	200	25	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Anthracene	**130**		42	21	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Benzo[a]anthracene	**530**		40	20	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Benzo[a]pyrene	**600**	J	53	26	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Benzo[b]fluoranthene	**1300**		62	31	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Benzo[g,h,i]perylene	**490**		100	22	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Benzo[k]fluoranthene	**380**		40	18	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Chrysene	**690**	J	45	23	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Dibenz(a,h)anthracene	**140**		100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Fluoranthene	**450**		100	20	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Fluorene	**31**	**J**	100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Indeno[1,2,3-cd]pyrene	**360**		100	36	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
1-Methylnaphthalene	**210**		200	22	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
2-Methylnaphthalene	**310**		200	36	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Phenanthrene	**390**		40	20	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4
Pyrene	**590**		100	19	ug/Kg	☼	02/25/13 10:02	02/26/13 19:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*119*		*30 - 130*	*02/25/13 10:02*	*02/26/13 19:24*	*4*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Client Sample ID: FM0161UUU-CS
Date Collected: 02/19/13 09:34
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-15
Matrix: Solid
Percent Solids: 94.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Acenaphthylene	**16**	**J**	42	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Anthracene	**28**		8.8	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Benzo[a]anthracene	**170**		8.4	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Benzo[a]pyrene	**160**	J	11	5.5	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Benzo[b]fluoranthene	**290**		13	6.4	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Benzo[g,h,i]perylene	**110**		21	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Benzo[k]fluoranthene	**100**		8.4	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Chrysene	**200**	J	9.4	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Dibenz(a,h)anthracene	**33**		21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Fluoranthene	**310**		21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Fluorene	**12**	**J**	21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Indeno[1,2,3-cd]pyrene	**99**		21	7.5	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
1-Methylnaphthalene	**57**		42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
2-Methylnaphthalene	**70**		42	7.5	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Naphthalene	**67**		42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Phenanthrene	**180**		8.4	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1
Pyrene	**300**		21	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*30 - 130*	*02/25/13 10:02*	*02/26/13 19:42*	*1*

Client Sample ID: FM0161VVV-CS
Date Collected: 02/19/13 09:38
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-16
Matrix: Solid
Percent Solids: 94.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Acenaphthylene	**11**	**J**	41	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Anthracene	**37**	J	8.7	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Benzo[a]anthracene	**180**	J	8.3	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Benzo[a]pyrene	**140**	J	11	5.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Benzo[b]fluoranthene	**270**	J	13	6.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Benzo[g,h,i]perylene	**100**		21	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Benzo[k]fluoranthene	**89**	J	8.3	3.7	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Chrysene	**220**	J	9.3	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Dibenz(a,h)anthracene	**34**		21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Fluoranthene	**390**	J	21	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Fluorene	**13**	**J**	21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Indeno[1,2,3-cd]pyrene	**88**		21	7.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
1-Methylnaphthalene	**49**		41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
2-Methylnaphthalene	**68**		41	7.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Naphthalene	**72**		41	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Phenanthrene	**200**	J	8.3	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1
Pyrene	**320**	J	21	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*30 - 130*	*02/25/13 10:02*	*02/26/13 20:01*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-1
SDG: 68087655-1

Client Sample ID: FM0161VVV-CSD
Date Collected: 02/19/13 09:40
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-17
Matrix: Solid
Percent Solids: 95.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Acenaphthylene	**10**	**J**	42	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Anthracene	**11**	**J**	8.8	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Benzo[a]anthracene	**86**	**J**	8.4	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Benzo[a]pyrene	**74**	**J**	11	5.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Benzo[b]fluoranthene	**150**	**J**	13	6.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Benzo[g,h,i]perylene	**61**		21	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Benzo[k]fluoranthene	**51**	**J**	8.4	3.8	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Chrysene	**110**	**J**	9.4	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Dibenz(a,h)anthracene	**21**		21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Fluoranthene	**140**	**J**	21	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Fluorene	**8.6**	**J**	21	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Indeno[1,2,3-cd]pyrene	**50**		21	7.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
1-Methylnaphthalene	**43**		42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
2-Methylnaphthalene	**50**		42	7.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Naphthalene	**54**		42	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Phenanthrene	**96**	**J**	8.4	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1
Pyrene	**140**	**J**	21	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*02/25/13 10:02*	*02/26/13 20:19*	*1*

Client Sample ID: FM0161WWW-CS
Date Collected: 02/19/13 09:45
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-18
Matrix: Solid
Percent Solids: 99.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Acenaphthylene	40	U	40	5.0	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Anthracene	**9.0**		8.4	4.2	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Benzo[a]anthracene	**39**		8.0	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Benzo[a]pyrene	**43**	**J**	10	5.2	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Benzo[b]fluoranthene	**55**		12	6.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Benzo[g,h,i]perylene	**30**		20	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Benzo[k]fluoranthene	**30**		8.0	3.6	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Chrysene	**51**	**J**	9.1	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Dibenz(a,h)anthracene	**13**	**J**	20	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Fluoranthene	**60**		20	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Fluorene	**6.7**	**J**	20	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Indeno[1,2,3-cd]pyrene	**27**		20	7.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
1-Methylnaphthalene	**28**	**J**	40	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
2-Methylnaphthalene	**34**	**J**	40	7.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Naphthalene	**35**	**J**	40	4.4	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Phenanthrene	**49**		8.0	3.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1
Pyrene	**65**		20	3.7	ug/Kg	☼	02/25/13 10:02	02/26/13 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*30 - 130*	*02/25/13 10:02*	*02/26/13 20:38*	*1*

Client Sample ID: FM0161XXX-CS

Lab Sample ID: 680-87655-19

Date Collected: 02/19/13 09:46
Matrix: Solid
Date Received: 02/21/13 09:20
Percent Solids: 88.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	26	J	110	22	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Acenaphthylene	12	J	45	5.6	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Anthracene	65		9.3	4.7	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Benzo[a]anthracene	190		8.9	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Benzo[a]pyrene	150	J	12	5.8	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Benzo[b]fluoranthene	250		14	6.8	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Benzo[g,h,i]perylene	97		22	4.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Benzo[k]fluoranthene	87		8.9	4.0	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Chrysene	180	J	10	5.0	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Dibenz(a,h)anthracene	29		22	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Fluoranthene	340		22	4.5	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Fluorene	33		22	4.6	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Indeno[1,2,3-cd]pyrene	82		22	7.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
1-Methylnaphthalene	28	J	45	4.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
2-Methylnaphthalene	28	J	45	7.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Naphthalene	57		45	4.9	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Phenanthrene	290		8.9	4.3	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1
Pyrene	310		22	4.1	ug/Kg	☼	02/25/13 10:02	02/26/13 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*02/25/13 10:02*	*02/26/13 20:56*	*1*

Client Sample ID: FM0161YYY-CS

Lab Sample ID: 680-87655-20

Date Collected: 02/19/13 09:57
Matrix: Solid
Date Received: 02/21/13 09:20
Percent Solids: 94.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	85	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Acenaphthylene	170	U	170	21	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Anthracene	66		36	18	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Benzo[a]anthracene	250	J	34	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Benzo[a]pyrene	170		44	22	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Benzo[b]fluoranthene	240	J	52	26	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Benzo[g,h,i]perylene	150		85	19	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Benzo[k]fluoranthene	79		34	15	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Chrysene	290	J	38	19	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Dibenz(a,h)anthracene	42	J	85	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Fluoranthene	310		85	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Fluorene	21	J	85	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Indeno[1,2,3-cd]pyrene	130		85	30	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
1-Methylnaphthalene	53	J	170	19	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
2-Methylnaphthalene	76	J J	170	30	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Naphthalene	77	J	170	19	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Phenanthrene	250		34	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4
Pyrene	310		85	16	ug/Kg	☼	02/25/13 11:29	02/26/13 17:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*02/25/13 11:29*	*02/26/13 17:44*	*4*